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L14	11	I12 and (pager adj network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:45
L15	232	379/4.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:46
L16	0	I15 and (pager adj network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:45

L17	99066	"379"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:48
L18	1	I17 and ((remot\$4 near6 (download\$4 or upgrad\$4 or program\$6 or configur\$5))same (pager adj network))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:48
L19	13514	"380"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:48
L20	40287	"700"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:54
L21	0	I19 and ((remot\$4 near6 (download\$4 or upgrad\$4 or program\$6 or configur\$5))same (pager adj network))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:48
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L25	22989	"713"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:54
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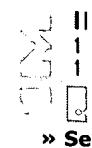
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Funsten, H.O.; Ritzau, S.M.; Harper, R.W.; Korde, R.;
Nuclear Science, IEEE Transactions on , Volume: 48 , Issue: 6 , Dec. 2001
Pages:1785 - 1789

[Abstract] [PDF Full-Text (89KB)] IEEE JNL

2 Damage induced in 100% internal carrier collection efficiency silicon photodiodes by 10-60 keV ion irradiation

Ritzau, S.M.; Funsten, H.O.; Harper, R.W.; Korde, R.;
Nuclear Science, IEEE Transactions on , Volume: 45 , Issue: 6 , Dec. 1998
Pages:2820 - 2825

[Abstract] [PDF Full-Text (604KB)] IEEE JNL

3 Position sensitivity in gallium arsenide radiation detectors

Harper, R.W.; Hilko, R.A.;
Nuclear Science Symposium and Medical Imaging Conference, 1994., 1994 IEEE Conference Record , Volume: 2 , 30 Oct.-5 Nov. 1994
Pages:931 - 932 vol.2

[Abstract] [PDF Full-Text (164KB)] IEEE CNF

4 The temporal response and relative proton-to-gamma ratio of radiation detectors made from natural diamond

Wagner, R.S.; Joseph, J.R.; Hilko, R.A.; Harper, R.W.; Tinsley, J.R.;
Nuclear Science Symposium and Medical Imaging Conference, 1992., Conference Record of the 1992 IEEE , 25-31 Oct. 1992
Pages:88 - 90 vol.1

[Abstract] [PDF Full-Text (288KB)] IEEE CNF

5 Sensitivity of PCDs to protons and photons as a function of applied detector voltage

Hilko, R.A.; Harper, R.W.; Droemer, D.W.; Liljestrand, R.P.; Wagner, R.; Brad

J.;

Nuclear Science Symposium and Medical Imaging Conference, 1991., Conference Record of the 1991 IEEE , 2-9 Nov. 1991
Pages:70 - 74 vol.1

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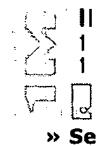
6 Response of PCDs to low-energy protons

Hilko, R.A.; Harper, R.W.; Droeber, D.W.; Liljestrand, R.P.; Klingler, Q.; Wart B.J.; Stelts, M.L.; Wagner, R.; Bradley, J.;
Nuclear Science Symposium and Medical Imaging Conference, 1991., Conference Record of the 1991 IEEE , 2-9 Nov. 1991
Pages:65 - 69 vol.1

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Relevance scale **1 Beyond the post-PC Internet**

Vinton Cerf

September 2001 **Communications of the ACM**, Volume 44 Issue 9Full text available:  [pdf\(354.74 KB\)](#)
 [html\(13.74 KB\)](#)Additional Information: [full citation](#), [citations](#), [index terms](#)**2 Computer-based cognitive prosthetics: assistive technology for the treatment of cognitive disabilities**

Elliot Cole, Paro Dehdashti

January 1998 **Proceedings of the third international ACM conference on Assistive technologies**Full text available:  [txt\(38.46 KB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: cognitive disabilities, cognitive prosthetics, health care applications, learning disabilities, personal productivity tools, usability testing, user interfaces, user studies

3 Intelligent management of network devices aided by a strategy and a tool

Calebe de Paula Bianchini

October 2003 **Proceedings of the 2003 IFIP/ACM Latin America conference on Towards a Latin American agenda for network research**Full text available:  [pdf\(1.31 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The increasing decentralization of computational resources and the need for distributed and heterogeneous systems management have motivated the development of strategies and tools to assist network administrators in a great part of their tasks through automatic monitoring of devices. Combining the ideas of pervasive computing and software agents, this work presents a tool for monitoring devices distributed in a network and guided by a well-defined strategy. The tool uses intelligent software ...

Keywords: computer network management, intelligent management, intelligent software agents, pervasive computing, software engineering

4 Experiences with network-based user agents for mobile applications

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee
August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Full text available:  pdf(631.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless networks are characterized by simple end devices and limited bandwidth. One solution to address these and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network to assist with application processing that would normally take place on end devices. These agents can additionally manipulate data to reduce bandwidth requirements and assist in providing services. The design and implementation of a user a ...

5 Wide-area monitoring of mobile objects: Energy-efficient surveillance system using wireless sensor networks

Tian He, Sudha Krishnamurthy, John A. Stankovic, Tarek Abdelzaher, Liqian Luo, Radu Stoleru, Ting Yan, Lin Gu, Jonathan Hui, Bruce Krogh
June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services**

Full text available:  pdf(850.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The focus of surveillance missions is to acquire and verify information about enemy capabilities and positions of hostile targets. Such missions often involve a high element of risk for human personnel and require a high degree of stealthiness. Hence, the ability to deploy unmanned surveillance missions, by using wireless sensor networks, is of great practical importance for the military. Because of the energy constraints of sensor devices, such systems necessitate an energy-aware design to ensu ...

Keywords: energy conservation, sensor networks, tracking, wireless

6 Posters: Infuse: a TDMA based reprogramming service for sensor networks

Mahesh (Ummamaheswaran) Arumugam
November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**

Full text available:  pdf(86.73 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Programming or upgrading the software in sensor networks is one of the important problems since the sensors are often deployed in large numbers and in hostile environments. In this paper, we present <i>infuse</i>, a reliable over the air reprogramming service for sensor networks using time division multiple access (TDMA) protocol. In case of unexpected channel errors, a back pressure mechanism is used to ensure reliable propagation. Moreover, we show that infuse propagates code in a p ...

Keywords: TDMA, network programming, sensor networks

7 Posters: MNP: multihop network reprogramming service for sensor networks

Limin Wang
November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**

Full text available:  pdf(110.29 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Reprogramming of sensor networks is an important and challenging problem as it is often desirable to reprogram the sensors in place. In this paper, we propose a multihop reprogramming service designed for Mica-2 motes. One of the problems in reprogramming

is the issue of message collision. To reduce the problem of collision, we propose a sender selection algorithm that attempts to guarantee that in a <i>neighborhood</i> there is at most one source transmitting the program at a time. F ...

Keywords: code dissemination, network reprogramming, sensor networks

8 Tools: Automated tools to implement and test Internet systems in reconfigurable hardware



John W. Lockwood, Chris Neely, Chris Zuver, Dave Lim

July 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 3

Full text available: [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Tools have been developed to automatically integrate and test networking systems in reconfigurable hardware. These tools dynamically generate circuits for Field Programmable Gate Arrays (FPGAs). A library of hardware-accelerated modules has been developed that processes Internet Protocol (IP) packets, performs header rule matching, scans packet payloads, and implements per-flow queueing. Other functions can be added to the library as extensible modules. An integration tool was developed to enable ...

Keywords: Field Programmable Gate Array (FPGA), Internet, firewall, network intrusion detection and prevention, networks, reconfigurable hardware, tools

9 Simulation: Simulating the power consumption of large-scale sensor network applications



Victor Shnayder, Mark Hempstead, Bor-rong Chen, Geoff Werner Allen, Matt Welsh

November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**

Full text available: [pdf\(1.00 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Developing sensor network applications demands a new set of tools to aid programmers. A number of simulation environments have been developed that provide varying degrees of scalability, realism, and detail for understanding the behavior of sensor networks. To date, however, none of these tools have addressed one of the most important aspects of sensor application design: that of power consumption. While simple approximations of overall power usage can be derived from estimates of node duty c ...

Keywords: TOSSIM, mica2 energy model, power simulation, sensor networks

10 Programming: The dynamic behavior of a data dissemination protocol for network programming at scale



Jonathan W. Hui, David Culler

November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**

Full text available: [pdf\(1.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

To support network programming, we present Deluge, a reliable data dissemination protocol for propagating large data objects from one or more source nodes to many other nodes over a multihop, wireless sensor network. Deluge builds from prior work in density-aware, epidemic maintenance protocols. Using both a real-world deployment and simulation, we show that Deluge can reliably disseminate data to all nodes and characterize its overall performance. On Mica2-dot nodes, Deluge can push nearly 9 ...

Keywords: dissemination protocols, network programming, wireless networks, wireless

sensor networks

11 Key establishment in sensor networks: TinyPK: securing sensor networks with public key technology

Ronald Watto, Derrick Kong, Sue-fen Cuti, Charles Gardiner, Charles Lynn, Peter Kruus
October 2004 **Proceedings of the 2nd ACM workshop on Security of ad hoc and sensor networks**

Full text available:  pdf(204.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless networks of miniaturized, low-power sensor/actuator devices are poised to become widely used in commercial and military environments. The communication security problems for these networks are exacerbated by the limited power and energy of the sensor devices. In this paper, we describe the design and implementation of public-key-(PK)-based protocols that allow authentication and key agreement between a sensor network and a third party as well as between two sensor networks. Our work ...

Keywords: TinyOS, authentication, cryptography, diffie-hellman, encryption, key management, public key (PK), rivest shamir adelman (RSA), sensor networks

12 Networking experience: Understanding packet delivery performance in dense wireless sensor networks

Jerry Zhao, Ramesh Govindan
November 2003 **Proceedings of the 1st international conference on Embedded networked sensor systems**

Full text available:  pdf(501.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless sensor networks promise fine-grain monitoring in a wide variety of environments. Many of these environments (e.g., indoor environments or habitats) can be harsh for wireless communication. From a networking perspective, the most basic aspect of wireless communication is the packet delivery performance: the spatio-temporal characteristics of packet loss, and its environmental dependence. These factors will deeply impact the performance of data acquisition from these networks. In th ...

Keywords: low power radio, packet loss, performance measurement

13 Design, analysis, and implementation of DVSR: a fair high-performance protocol for packet rings

Violeta Gambiroza, Ping Yuan, Laura Balzano, Yonghe Liu, Steve Sheafor, Edward Knightly
February 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 1

Full text available:  pdf(671.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Resilient Packet Ring (RPR) IEEE 802.17 standard is a new technology for high-speed backbone metropolitan area networks. A key performance objective of RPR is to simultaneously achieve high utilization, spatial reuse, and fairness, an objective not achieved by current technologies such as SONET and Gigabit Ethernet nor by legacy ring technologies such as FDDI. The core technical challenge for RPR is the design of a bandwidth allocation algorithm that dynamically achieves these three properti ...

Keywords: dynamic bandwidth allocation, fairness, metro rings, scheduling

14 Self-configuring localization systems: Design and Experimental Evaluation

Nirupama Bulusu, John Heidemann, Deborah Estrin, Tommy Tran
February 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 1

Full text available:  pdf(261.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Embedded networked sensors promise to revolutionize the way we interact with our physical environment and require scalable, ad hoc deployable and energy-efficient node localization/positioning. This paper describes the motivation, design, implementation, and experimental evaluation (on sharply resource-constrained devices) of a *self-configuring* localization system using radio beacons. We identify beacon density as an important parameter in determining localization quality, which sat ...

Keywords: Location, localization, self-configuration, sensor networks

15 Tools: NIST Net: a Linux-based network emulation tool

Mark Carson, Darrin Santay

July 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 3

Full text available:  pdf(509.00 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Testing of network protocols and distributed applications has become increasingly complex, as the diversity of networks and underlying technologies increase, and the adaptive behavior of applications becomes more sophisticated. In this paper, we present *NIST Net*, a tool to facilitate testing and experimentation with network code through emulation. *NIST Net* enables experimenters to model and effect arbitrary performance dynamics (packet delay, jitter, bandwidth limitations, congestion, pac ...

16 A formal framework for modelling and analysing mobile systems

Graeme Smith

January 2004 **Proceedings of the 27th conference on Australasian computer science - Volume 26**

Full text available:  pdf(171.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents a formal framework for modelling and analysing mobile systems. The framework comprises a collection of models of the dominant design paradigms which are readily extended to incorporate details of particular technologies, i.e., programming languages and their run-time support, and applications. The modelling language is Object-Z, an extension of the well-known Z specification language with explicit support for object-oriented concepts. Its support for object orientation makes ...

Keywords: formal methods, mobile computing, object orientation

17 The case for services over cascaded networks

Anthony D. Joseph, B. R. Badrinath, Randy H. Katz

October 1998 **Proceedings of the 1st ACM international workshop on Wireless mobile multimedia**

Full text available:  pdf(1.08 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Cases and experiences: Technology trouble? talk to us: findings from an ethnographic field study

Ellen Balka, Nicki Kahnemoupi

July 2004 **Proceedings of the eighth conference on Participatory design: Artful integration: interweaving media, materials and practices - Volume 1**

Full text available:  pdf(1.16 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

The notion that the design of technology is only fully completed when in use [23] is shared by many who now investigate user participation in design and the domestication of new technologies. Taking this idea as our starting point, we developed a research to action project with a major Canadian hospital. Our goals were to address technology implementation issues that arose as most units in the hospital moved to a new building, in which most technology (ranging from wired beds to drug dispensing ...

19 Software engineering and middleware: XML middleware to services on STB

Devyani Pujari, Niral Jhaveri, Juan Carlos Guzmán

April 2004 **Proceedings of the 42nd annual Southeast regional conference**

Full text available:  pdf(273.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The potential of the set-top box has accelerated the future of home network. We present in this paper our ideas and implementation to illustrate the benefits of XML as a messaging protocol between the client and the services on the set-top box. To that end, the capability of using XML as the message exchange language and protocol for services residing on the STB are shown by prototypical applications of a CD player and a Lego Controller. The first application is able to access a CD Drive on the ...

Keywords: Personal Digital Assistants, Set-top box (STB), XML, computing, home network, services, wireless, wireless 802.11b

20 Agents, interactions, mobility, and systems (AIMS): Software agents for process monitoring and notification

Larry Bunch, Maggie Breedy, Jeffrey M. Bradshaw, Marco Carvalho, Niranjan Suri, Andrzej Uszok, Jack Hansen, Michal Pechoucek, Vladimir Marik

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available:  pdf(974.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Safety and efficiency are primary concerns in chemical processing facilities, though the complexity of many such systems often makes it difficult for operators to detect abnormal conditions before they compromise throughput or become hazardous. In this paper, we report initial results from the application of multi-agent systems to monitor complex chemical processes and flexibly and appropriately notify key plant personnel about off-nominal conditions.

Keywords: DAML, FlexFeed, KAOS, KARMEN, OWL, agent, chemical process, monitoring, notification, ontology, policy

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[21 The duality of memory and communication in the implementation of a multiprocessor operating system](#)

M. Young, A. Tevanian, R. Rashid, D. Golub, J. Eppinger

November 1987 **ACM SIGOPS Operating Systems Review , Proceedings of the eleventh ACM Symposium on Operating systems principles**, Volume 21 Issue 5

Full text available: [pdf\(1.26 MB\)](#)

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The *MANTIS MultimodAI* system for *NeTworks of In-situ wireless Sensors* provides a new multithreaded embedded operating system integrated with a general-purpose single-board hardware platform to enable flexible and rapid prototyping of wireless sensor networks. The key design goals of MANTIS are ease of use, i.e. a small learning curve that encourages novice programmers to rapidly prototype novel sensor networking applications in software and hardware, as well as flexibility, ...

Keywords: GPS, dynamic reprogramming, lightweight, multimodal prototyping, operating systems, wireless sensor networks

24 Reprogrammable network packet processing on the field programmable port extender (FPX)

John W. Lockwood, Naji Naufel, Jon S. Turner, David E. Taylor

February 2001 **Proceedings of the 2001 ACM/SIGDA ninth international symposium on Field programmable gate arrays**

Full text available:  pdf(257.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A prototype platform has been developed that allows processing of packets at the edge of a multi-gigabit-per-second network switch. This system, the Field Programmable Port Extender (FPX), enables packet processing functions to be implemented as modular components in reprogrammable hardware. All logic on the on the FPX is implemented in two Field Programmable Gate Arrays (FPGAs). Packet processing functions in the system are implemented as dynamically-loadable modules.Core functi ...

Keywords: ATM, FPGA, IP, Internet, hardware, modularity, network, packet, processing, reconfiguration, routing

25 Cases from the field: Field studies of computer system administrators: analysis of system management tools and practices

Rob Barrett, Eser Kandogan, Paul P. Maglio, Eben M. Haber, Leila A. Takayama, Madhu Prabaker

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**

Full text available:  pdf(405.09 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Computer system administrators are the unsung heroes of the information age, working behind the scenes to configure, maintain, and troubleshoot the computer infrastructure that underlies much of modern life. However, little can be found in the literature about the practices and problems of these highly specialized computer users. We conducted a series of field studies in large corporate data centers, observing organizations, work practices, tools, and problem-solving strategies of system admi ...

Keywords: collaboration, command-line interfaces, ethnography, situation awareness, system administration

26 From RIG to Accent to Mach: the evolution of a network operating system

Richard F. Rashid

November 1999 **Proceedings of 1986 ACM Fall joint computer conference**

Full text available:  pdf(1.12 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Remote repair, diagnostics, and maintenance

Markus Biehl, Edmund Prater, John R. McIntyre
November 2004 **Communications of the ACM**, Volume 47 Issue 11

Full text available: [pdf\(113.17 KB\)](#) [html\(30.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An overview and comparison of the U.S., Japanese, and German machine tool industries.

28 Maté: a tiny virtual machine for sensor networks

Philip Levis, David Culler
October 2002 **Proceedings of the 10th international conference on Architectural support for programming languages and operating systems**, Volume 37 , 30 , 36 Issue 10 , 5 , 5

Full text available: [pdf\(1.22 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Composed of tens of thousands of tiny devices with very limited resources ("motes"), sensor networks are subject to novel systems problems and constraints. The large number of motes in a sensor network means that there will often be some failing nodes; networks must be easy to repopulate. Often there is no feasible method to recharge motes, so energy is a precious resource. Once deployed, a network must be reprogrammable although physically unreachable, and this reprogramming can be a significant ...

29 Session III: Mobility Management in multimedia networks: Mobility support in unified communication networks

Helen J. Wang, Randy H. Katz
July 2001 **Proceedings of the 4th ACM international workshop on Wireless mobile multimedia**

Full text available: [pdf\(1.11 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Rapid advances in communication networks and device technologies have enabled people with powerful means of communications. It is common for any individual to be associated with a number of heterogeneous communication devices (such as phones, pagers, PDAs) or a variety of applications (such as e-mail, instant messaging, or chat-rooms). This phenomenon has spurred a great demand for *unified communication* [20] services which integrate one's various communication mechanisms in a meaningful way ...

30 Pen computing: a technology overview and a vision

André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available: [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historical ...

31 Wireless personal area networks: an overview of the IEEE P802.15 working group

Richard C. Braley, Ian C. Gifford, Robert F. Heile
January 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 1

Full text available: [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [index terms](#)

32 Transport and Routing Protocols: PSFQ: a reliable transport protocol for wireless sensor networks

Chieh-Yih Wan, Andrew T. Campbell, Lakshman Krishnamurthy
September 2002 **Proceedings of the 1st ACM international workshop on Wireless sensor networks and applications**

Full text available:  pdf(491.58 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose *PSFQ* (*Pump Slowly, Fetch Quickly*), a reliable transport protocol suitable for a new class of reliable data applications emerging in wireless sensor networks. For example, currently sensor networks tend to be application specific and are typically hard-wired to perform a specific task efficiently at low cost; however, there is an emerging need to be able to re-task or reprogram groups of sensors in wireless sensor networks on the fly (e.g., during disaster recovery). Due to the ...

Keywords: reliable transport protocols, wireless sensor networks

33 Security: Ariadne:: a secure on-demand routing protocol for ad hoc networks

Yih-Chun Hu, Adrian Perrig, David B. Johnson
September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking**

Full text available:  pdf(308.15 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

a secure on-demand routing protocol for ad hoc networks.

Keywords: ad hoc network routing, routing, security

34 Poster abstracts: Parallel processing over mobile ad hoc networks of handheld machines

Michael J. Jipping, Gary Lewandowski
October 2001 **Proceedings of the 2nd ACM international symposium on Mobile ad hoc networking & computing**

Full text available:  pdf(156.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we describe the formatting guidelines for ACM SIG Proceedings.

35 Strategic directions in networks and telecommunications

David Clark, Joseph Pasquale
December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4

Full text available:  pdf(204.75 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

36 The Jini architecture: dynamic services in a flexible network

Ken Arnold
June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation**

Full text available:  pdf(62.17 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Java, Jini, distributed computing, distribution, networks

37 Emerging business models for mobile brokerage services

Clayton A. Looney, Leonard M. Jessup, Joseph S. Valacich
June 2004 **Communications of the ACM**, Volume 47 Issue 6

Full text available: [pdf\(129.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

[html\(34.07 KB\)](#)

Business models designed specifically for the mobile arena are reshaping the industry. But each model has unique advantages and disadvantages---potential adopters should take care in choosing among them.

38 Cinco Network's WebXRay

Gilbert Held
July 1998 **International Journal of Network Management**, Volume 8 Issue 4

Full text available: [pdf\(359.07 KB\)](#)

Additional Information: [full citation](#), [index terms](#)

39 Energy-conserving access protocols for identification networks

Imrich Chlamtac, Chiara Petrioli, Jason Redi
February 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 1

Full text available: [pdf\(257.54 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

40 MEMOS: an interactive assistive system for prospective memory deficit compensation- architecture and functionality

Hendrik Schulze
September 2004 **ACM SIGACCESS Accessibility and Computing , Proceedings of the ACM SIGACCESS conference on Computers and accessibility**, Issue 77-78

Full text available: [pdf\(349.46 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Mobile Extensible Memory Aid System (MEMOS) is an electronic memory aid system which was developed to support patients with deficits in the prospective memory after a brain injury. A special palmtop computer, the Personal Memory Assistant (PMA), reminds the patient of important tasks and supervises the patient's actions. The PMA communicates with a stationary care system via a bidirectional cellular radio connection (GPRS). MEMOS features structured interactive reminding impulses, a flexi ...

Keywords: assistive technology, cognitive prosthesis, electronic memory aid, health care application, mobile computing, prospective memory disturbances, usability

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reprogramming <and> pager network

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Relevance scale

41 The integration of virtual memory management and interprocess communication in Accent

Robert Fitzgerald, Richard F. Rashid

May 1986 **ACM Transactions on Computer Systems (TOCS)**, Volume 4 Issue 2Full text available: pdf(2.45 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The integration of virtual memory management and interprocess communication in the Accent network operating system kernel is examined. The design and implementation of the Accent memory management system is discussed and its performance, both on a series of message-oriented benchmarks and in normal operation, is analyzed in detail.

42 A method of data transfer control during handoffs in mobile-IP based multimedia networks

P. Venkataram, R. Rajavelsamy, S. Laxmaiah

April 2001 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 5 Issue 2Full text available: pdf(796.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Applications that require untethered access, in real-time, to multimedia information sources are made possible by mobile multimedia networks. These include support for decision makers in the field, crisis management and response, law enforcement, etc. The multimedia applications demand constant and continuous flow of data from the integrated sources. So, the network should support continuous transfer of information to the mobile hosts. However, the handoffs initiated by the mobile hosts will not ...

43 Applications and OS: Wireless sensor networks for habitat monitoring

Alan Mainwaring, David Culler, Joseph Polastre, Robert Szewczyk, John Anderson

September 2002 **Proceedings of the 1st ACM international workshop on Wireless sensor networks and applications**Full text available: pdf(542.04 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We provide an in-depth study of applying wireless sensor networks to real-world habitat monitoring. A set of system design requirements are developed that cover the hardware design of the nodes, the design of the sensor network, and the capabilities for remote data access and management. A system architecture is proposed to address these requirements for habitat monitoring in general, and an instance of the architecture for monitoring seabird nesting environment and behavior is presented. The cu ...

Keywords: environmental monitoring, habitat monitoring, low power systems, sensor network architecture, wireless sensor networks

44 Modeling methodology: Parallel execution of a sequential network simulator

Kevin G. Jones, Samir R. Das

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available:  pdf(72.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Parallel discrete event simulation (PDES) techniques have not yet made a substantial impact on the network simulation community because of the need to recast the simulation models using a new set of tools. To address this problem, we present a case study in transparently parallelizing a widely used network simulator, called *ns*. The use of this parallel *ns* does not require the modeler to learn any new tools or complex PDES techniques. The paper describes our approach and design choi ...

45 Building efficient wireless sensor networks with low-level naming

John Heidemann, Fabio Silva, Chalermek Intanagonwiwat, Ramesh Govindan, Deborah Estrin, Deepak Ganesan

October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles**, Volume 35 Issue 5

Full text available:  pdf(1.54 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In most distributed systems, naming of nodes for low-level communication leverages topological location (such as node addresses) and is independent of any application. In this paper, we investigate an emerging class of distributed systems where low-level communication does not rely on network topological location. Rather, low-level communication is based on attributes that are *external* to the network topology and *relevant* to the application. When combined with dense deployment of n ...

46 Sensor networks and energy management: Effects of power conservation, wireless coverage and cooperation on data dissemination among mobile devices

Maria Papadopouli, Henning Schulzrinne

October 2001 **Proceedings of the 2nd ACM international symposium on Mobile ad hoc networking & computing**

Full text available:  pdf(313.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents 7DS, a novel peer-to-peer data sharing system. 7DS is an architecture, a set of protocols and an implementation enabling the exchange of data among peers that are not necessarily connected to the Internet. Peers can be either mobile or stationary. It anticipates the information needs of users and fulfills them by searching from information among peers. We evaluate via extensive simulations the effectiveness of our system for data dissemination among mobile devices with a larg ...

47 A comprehensive approach to signaling, transmission, and traffic management for wireless ATM networks

Anthony Burrell, P. Papantoni-Kazakos

September 2001 **Wireless Networks**, Volume 7 Issue 4

Full text available:  pdf(331.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose and evaluate a signaling and transmission algorithmic system for wireless digital networks, in conjunction with a Traffic Monitoring Algorithm (TMA) for dynamic capacity allocation in multimedia ATM environments. The deployed signaling protocol is stable, and

two transmission techniques are compared: a Framed Time-Domain Based (FTDB) technique and a Framed CDMA (FCDMA) technique. The overall signaling/transmission/traffic monitoring proposed system has powerful performance characteris ...

Keywords: multimedia environments, signaling and transmission, traffic monitoring, wireless

48 Research challenges in wireless networks of biomedical sensors

Loren Schwiebert, Sandeep K.S. Gupta, Jennifer Weinmann

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

Full text available:  pdf(612.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Implanted biomedical devices have the potential to revolutionize medicine. *Smart sensors*, which are created by combining sensing materials with integrated circuitry, are being considered for several biomedical applications such as a glucose level monitor or a retina prosthesis. These devices require the capability to communicate with an external computer system (base station) via a wireless interface. The limited power and computational capabilities of smart sensor based biological imp ...

49 Wireless Andrew: building a high speed, campus-wide wireless data network

Bernard J. Bennington, Charles R. Bartel

January 2001 **Mobile Networks and Applications**, Volume 6 Issue 1

Full text available:  pdf(159.87 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: Andrew, WaveLAN, integration, wireless network

50 Networking support for mobile computing

Upkar Varshney

January 1999 **Communications of the AIS**

Full text available:  pdf(121.38 KB)

Additional Information: [full citation](#), [references](#)

51 Enhancing the computer networking curriculum

Jon Rickman, Merry McDonald, Gary McDonald, Phillip Heeler

June 2001 **ACM SIGCSE Bulletin , Proceedings of the 6th annual conference on Innovation and technology in computer science education**, Volume 33 Issue 3

Full text available:  pdf(393.09 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An increasing number of students in computer science are requesting advanced study and active learning experiences in computer networking. Employers need graduates who not only understand the fundamentals of networking but those who can quickly be involved in network administration. Meeting these demands in the curriculum suggests that new and well-planned laboratory and internship experiences should be incorporated into the computer science curriculum. However, there are some major challenges i ...

52 A conceptual framework for network and client adaptation

B. Badrinath, Armando Fox, Leonard Kleinrock, Gerald Popek, Peter Reiher, M. Satyanarayanan
December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4

Full text available:  pdf(218.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Modern networks are extremely complex, varying both statically and dynamically. This complexity and dynamism are greatly increased when the network contains mobile elements. A number of researchers have proposed solutions to these problems based on dynamic adaptation to changing network conditions and application requirements. This paper summarizes the results of several such projects and extracts several important general lessons learned about adapting data flows over difficult network condi ...

53 Why web-based network monitoring? Leveraging the platform

Ron D. Jenkins

May 1999 **International Journal of Network Management**, Volume 9 Issue 3

Full text available:  pdf(494.08 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The increasing use of network monitoring and the growth of the Internet and intranets are converging trends that make IP network infrastructures the logical means of delivering network monitoring, using browser -based clients. Copyright © 1999 John Wiley & Sons, Ltd.

54 Clustering algorithms for wireless ad hoc networks

Lakshmi Ramachandran, Manika Kapoor, Abhinanda Sarkar, Alok Aggarwal

August 2000 **Proceedings of the 4th international workshop on Discrete algorithms and methods for mobile computing and communications**

Full text available:  pdf(1.04 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Efficient clustering algorithms play a very important role in the fast connection establishment of ad hoc networks. In this paper, we describe a communication model that is derived directly from that of Bluetooth, an emerging technology for pervasive computing; this technology is expected to play a major role in future personal area network applications. We further propose two new distributed algorithms for clustering in wireless ad hoc networks. The existing algorithms often become infeasi ...

55 BlueSky: a cordless networking solution for palmtop computers

Pravin Bhagwat, Ibrahim Korpeoglu, Chatschik Bisdikian, Mahmoud Naghsineh, Satish K. Tripathi

August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking**

Full text available:  pdf(1.31 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

56 'Smart' and 'Stupid' networks: why the Internet is like Microsoft

Andrew Odlyzko

November 1998 **netWorker**, Volume 2 Issue 5

Full text available:  pdf(1.01 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

57 Mobile awareness in a wide area wireless network of info-stations

Tao Ye, H.-Arno Jacobsen, Randy Katz

October 1998 **Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking**

Full text available:  pdf(1.34 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

58 Cluster-based scalable network services

Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available: [!\[\]\(e33149aa5dfd0c44da8a965ac6e384f7_img.jpg\) pdf\(2.42 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

59 Transmission policies and traffic management in multimedia wireless networks

Anthony Burrell, Harold P. Stern, P. Papantoni-Kazakos
May 1997 **Wireless Networks**, Volume 3 Issue 2

Full text available: [!\[\]\(006190f2bbfbd38324559ea514e41ca7_img.jpg\) pdf\(358.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider multimedia wireless networks in environments where traffic characterizations and traffic rates are generally time-varying. For such networks we propose a CDMA transmission policy, in conjunction with a moving boundaries concept induced by a traffic monitoring high-level protocol. The proposed transmission/traffic management technique is analyzed and numerically evaluated.

60 Wireless Andrew: experience building a high speed, campus-wide wireless data network

Bernard J. Bennington, Charles R. Bartel
September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available: [!\[\]\(d6ac313375c532b36cba9ed9067a1449_img.jpg\) pdf\(1.48 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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Relevance scale **61 Adapting to network and client variability via on-demand dynamic distillation**

Armando Fox, Steven D. Gribble, Eric A. Brewer, Elan Amir

October 1996 **Proceedings of the seventh international conference on Architectural support for programming languages and operating systems**, Volume 30 , 31 Issue 5 , 9Full text available:  [pdf\(1.64 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The explosive growth of the Internet and the proliferation of smart cellular phones and handheld wireless devices is widening an already large gap between Internet clients. Clients vary in their hardware resources, software sophistication, and quality of connectivity, yet server support for client variation ranges from relatively poor to none at all. In this paper we introduce some design principles that we believe are fundamental to providing "meaningful" Internet access for the entire range of ...

62 U-Net: a user-level network interface for parallel and distributed computing (includes URL)

T. von Eicken, A. Basu, V. Buch, W. Vogels

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles**, Volume 29 Issue 5Full text available:  [pdf\(1.84 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**63 Experiences with a high-speed network adaptor: a software perspective**

Peter Druschel, Larry L. Peterson, Bruce S. Davie

October 1994 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architectures, protocols and applications**, Volume 24 Issue 4Full text available:  [pdf\(1.37 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes our experiences, from a software perspective, with the OSIRIS network adaptor. It first identifies the problems we encountered while programming OSIRIS and optimizing network performance, and outlines how we either addressed them in the software, or had to modify the hardware. It then describes the opportunities provided by OSIRIS that we were able to exploit in the host operating system (OS); opportunities that suggested techniques for making the OS more effective in d ...

64 System architecture directions for networked sensors

Jason Hill, Robert Szewczyk, Alec Woo, Seth Hollar, David Culler, Kristofer Pister
November 2000 **Proceedings of the ninth international conference on Architectural support for programming languages and operating systems**, Volume 34 , 28 Issue 5 , 5

Full text available: [!\[\]\(72b4cf351241b08691672e806c1604b7_img.jpg\) pdf\(299.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Technological progress in integrated, low-power, CMOS communication devices and sensors makes a rich design space of networked sensors viable. They can be deeply embedded in the physical world and spread throughout our environment like smart dust. The missing elements are an overall system architecture and a methodology for systematic advance. To this end, we identify key requirements, develop a small device that is representative of the class, design a tiny event-driven operating system, and sh ...

65 System architecture directions for networked sensors

Jason Hill, Robert Szewczyk, Alec Woo, Seth Hollar, David Culler, Kristofer Pister
November 2000 **ACM SIGPLAN Notices**, Volume 35 Issue 11

Full text available: [!\[\]\(1c70f21f694d12b9fc928edb998ea27b_img.jpg\) pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Technological progress in integrated, low-power, CMOS communication devices and sensors makes a rich design space of networked sensors viable. They can be deeply embedded in the physical world and spread throughout our environment like smart dust. The missing elements are an overall system architecture and a methodology for systematic advance. To this end, we identify key requirements, develop a small device that is representative of the class, design a tiny event-driven operating system, and sh ...

66 A real-time medium access control protocol for ad hoc wireless local area networks

Rusty O. Baldwin, Nathaniel J. Davis, Scott F. Midkiff
April 1999 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 3 Issue 2

Full text available: [!\[\]\(a7b41fb1134ffaedd465ed3a2efd9b2d_img.jpg\) pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We develop and analyze a simple, elegant medium access control (MAC) protocol for use in transmitting real-time data in point to point *ad hoc* wireless local area networks (WLANS). Our enhancement of IEEE 802.11, real-time MAC (RT-MAC), achieves dramatic reductions in mean delay, missed deadlines, and packet collisions by selectively discarding packets and sharing station state information. For example, in a 50 station network with a normalized offered load of 0.7, mean delay is reduced fr ...

67 The asymptotic complexity of merging networks

Peter Bro Miltersen, Mike Paterson, Jun Tarui
January 1996 **Journal of the ACM (JACM)**, Volume 43 Issue 1

Full text available: [!\[\]\(32649322933639c398e75a484b1b1ad0_img.jpg\) pdf\(1.55 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Let $M(m,n)$ be the minimum number of comparators needed in a comparator network that merges m elements $x_1 \leq x_2 \leq \dots \leq x_m$ and n elements $y_1 \leq y_2 \leq \dots \leq y_n$, where $n \geq m$. Batch ...

Keywords: comparator network, merging, sorting

68 Systems II: An analysis of a large scale habitat monitoring application

Robert Szewczyk, Alan Mainwaring, Joseph Polastre, John Anderson, David Culler
November 2004 **Proceedings of the 2nd international conference on Embedded**

networked sensor systems

Full text available: [!\[\]\(c7774dea93eb10ead3ed0542c77a8534_img.jpg\) pdf\(1.22 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Habitat and environmental monitoring is a driving application for wireless sensor networks. We present an analysis of data from a second generation sensor networks deployed during the summer and autumn of 2003. During a 4 month deployment, these networks, consisting of 150 devices, produced unique datasets for both systems and biological analysis. This paper focuses on nodal and network performance, with an emphasis on lifetime, reliability, and the static and dynamic aspects of single an ...

Keywords: application analysis, habitat monitoring, implementation, long-lived systems, microclimate monitoring, network architecture, sensor networks

69 Architectures: A perspective on the future of massively parallel computing: fine-grain vs. coarse-grain parallel models comparison & contrast 

Predrag T. Totic

April 2004 **Proceedings of the first conference on computing frontiers on Computing frontiers**

Full text available: [!\[\]\(3d12067139d6a2b0989a839672a8beec_img.jpg\) pdf\(277.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Models, architectures and languages for *parallel computation* have been of utmost research interest in computer science and engineering for several decades. A great variety of parallel computation models has been proposed and studied, and different parallel and distributed architectures designed as some possible ways of harnessing parallelism and improving performance of the general purpose computers. *Massively parallel connectionist models* such as *artificial neural networks* (...

Keywords: cellular automata, distributed systems, massively parallel computing, multiprocessor computers, neural networks, parallel computation models

70 Software engineering for mobility: a roadmap 

Gruia-Catalin Roman, Gian Pietro Picco, Amy L. Murphy

May 2000 **Proceedings of the Conference on The Future of Software Engineering**

Full text available: [!\[\]\(4f4d5875cccdb44c8f60eb9e86279722_img.jpg\) pdf\(2.07 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

71 Technical opinion: Current and future applications of mobile and wireless networks 

Rajeswari Malladi, Dharma P. Agrawal

October 2002 **Communications of the ACM**, Volume 45 Issue 10

Full text available: [!\[\]\(0f8c128464051f140b5a392b2df20dd2_img.jpg\) pdf\(80.48 KB\)](#) [!\[\]\(af5483db8598a732fce71b7d621bfec7_img.jpg\) html\(28.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless and mobile networks are being used in diverse areas such as travel, education, stock trading, military, package delivery, disaster recovery, and medical emergency care.

72 Characteristics of WAP traffic 

Irene C. Y. Ma, James Irvine

January 2004 **Wireless Networks**, Volume 10 Issue 1

Full text available: [!\[\]\(8fa7794540bcfe454084a5cf2d2c66a1_img.jpg\) pdf\(328.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper considers the characteristics of Wireless Application Protocol (WAP) traffic. We start by constructing a WAP traffic model by analysing the behaviour of users accessing public WAP sites via a monitoring system. A wide range of different traffic scenarios were considered, but most of these scenarios resolve to one of two basic types. The paper then

uses this traffic model to consider the effects of large quantities of WAP traffic on the core network. One traffic characteristic which is ...

Keywords: WAP, mobile data, self-similarity, traffic modelling

73 Poster Session: Poster abstract: mantis - system supports for multimodAI neTworks on in-situ sensors 

Hector Abrach, Shah Bhatti, Jim Carlson, Hui Dai, Jeff Rose, Anmol Sheth, Brian Shucker, Jing Deng, Richard Han

November 2003 **Proceedings of the 1st international conference on Embedded networked sensor systems**

Full text available:  pdf(147.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The *MANTIS* MultimodAI system for *NeTworks of In-situ wireless Sensors* provides a new multithreaded embedded operating system integrated with a general-purpose single-board hardware platform to enable flexible and rapid prototyping of wireless sensor networks.

Keywords: GPS, dynamic reprogramming, lightweight, multimodal prototyping, operating systems, wireless sensor networks

74 Distributed termination detection in a mobile wireless network 

Jeff Matocha

April 1998 **Proceedings of the 36th annual Southeast regional conference**

Full text available:  pdf(801.32 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

75 Knowledge management session 3: classification: Adding numbers to text classification 

Sofus A. Macskassy, Haym Hirsh

November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**

Full text available:  pdf(188.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many real-world problems involve a combination of both text- and numerical-valued features. For example, in email classification, it is possible to use instance representations that consider not only the text of each message, but also numerical-valued features such as the length of the message or the time of day at which it was sent. Text-classification methods have thus far not easily incorporated numerical features. In earlier work we described an approach for converting numerical features int ...

Keywords: information retrieval, machine learning, numerical features, text classification

76 Risks to the public: Risks to the public in computers and related systems 

Peter G. Neumann

May 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 3

Full text available:  pdf(128.46 KB) Additional Information: [full citation](#)

77 Security as a new dimension in embedded system design: Security as a new dimension in embedded system design 

Srivaths Ravi, Paul Kocher, Ruby Lee, Gary McGraw, Anand Raghunathan

June 2004 Proceedings of the 41st annual conference on Design automation

Full text available: [pdf\(209.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The growing number of instances of breaches in information security in the last few years has created a compelling case for efforts towards secure electronic systems. Embedded systems, which will be ubiquitously used to capture, store, manipulate, and access data of a sensitive nature, pose several unique and interesting security challenges. Security has been the subject of intensive research in the areas of cryptography, computing, and networking. However, despite these efforts, *security is ...*

Keywords: PDAs, architectures, battery life, cryptography, design, design methodologies, digital rights management, embedded systems, performance, security, security processing, security protocols, sensors, software attacks, tamper resistance, trusted computing, viruses

78 The mobile people architecture

Petros Maniatis, Mema Roussopoulos, Ed Swierk, Kevin Lai, Guido Appenzeller, Xinhua Zhao, Mary Baker

July 1999 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 3 Issue 3

Full text available: [pdf\(946.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

People are the outsiders in the current communications revolution. Computer hosts, pagers, and telephones are the addressable entities throughout the Internet and telephony systems. Human beings, however, still need application-specific tricks to be identified, like email addresses, telephone numbers, and ICQ IDs. The key challenge today is to find people and communicate with them personally, as opposed to communicating merely with their possibly inaccessible machines---cell phones that are turn ...

79 Chat I: Introducing chat into business organizations: toward an instant messaging maturity model

Michael J. Muller, Mary Elizabeth Raven, Sandra Kogan, David R. Millen, Kenneth Carey
November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work**

Full text available: [pdf\(647.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We provide the first study of instant messaging (IM) based on large samples of users' self reports. Previous studies have relied on ethnographic methods or analysis of server logs. Our self-report approach has its own strengths (large-sample; focus on attitudes, beliefs, and value attributions), as well as weaknesses (self-selection by respondents). We describe the introduction of Lotus Sametime™, an IM product, into three business organizations. Across the three organizations, we found su ...

Keywords: CSCW, chat, computer mediated communication, instant messaging, office computing, synchronous communication

80 Content-triggered trust negotiation

Adam Hess, Jason Holt, Jared Jacobson, Kent E. Seamons

August 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 3

Full text available: [pdf\(815.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The focus of access control in client/server environments is on protecting sensitive server resources by determining whether or not a client is authorized to access those resources. The set of resources is usually static, and an access control policy associated with each resource specifies who is authorized to access the resource. In this article, we turn the traditional client/server access control model on its head and address how to protect the

sensitive content that clients disclose to and r ...

Keywords: Trust negotiation, access control, authentication, credentials

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Relevance scale **81 Energy Efficient Systems: Wake on wireless:: an event driven energy saving strategy for battery operated devices**

Eugene Shih, Paramvir Bahl, Michael J. Sinclair

September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking**Full text available:  [pdf\(798.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The demand for an all-in-one phone with integrated personal information management and data access capabilities is beginning to accelerate. While personal digital assistants (PDAs) with built-in cellular, WiFi, and Voice-Over-IP technologies have the ability to serve these needs in a single package, the rate at which energy is consumed by PDA-based phones is very high. Thus, these devices can quickly drain their own batteries and become useless to their owner. In this paper, we introduce a techni ...

Keywords: low-power radio, power consumption of wireless LANs, wake-on-wireless**82 Distributed shared memory in a loosely coupled distributed system**

B. D. Fleisch

August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology**, Volume 17 Issue 5Full text available:  [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This work outlines the development and performance validation of an architecture for distributed shared memory in a loosely coupled distributed computing environment. This distributed shared memory may be used for communication and data exchange between communicants on different computing sites; the mechanism will operate transparently and in a distributed manner. This paper describes the architecture of this mechanism and metrics which will be used to measure its performan ...

83 Extensibility safety and performance in the SPIN operating system

B. N. Bershad, S. Savage, P. Pardyak, E. G. Sirer, M. E. Fiuczynski, D. Becker, C. Chambers, S. Eggers

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles**, Volume 29 Issue 5

Full text available: Additional Information:

[pdf\(2.32 MB\)](#)[full citation](#), [references](#), [citations](#), [index terms](#)**84 Machine-independent virtual memory management for paged uniprocessor and multiprocessor architectures**

Richard Rashid, Avadis Tevanian, Michael Young, David Golub, Robert Baron
October 1987 **Proceedings of the second international conference on Architectural support for programming languages and operating systems**, Volume 15 , 22 , 21 Issue 5 , 10 , 4

Full text available: [pdf\(1.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper describes the design and implementation of virtual memory management within the CMU Mach Operating System and the experiences gained by the Mach kernel group in porting that system to a variety of architectures. As of this writing, Mach runs on more than half a dozen uniprocessors and multiprocessors including the VAX family of uniprocessors and multiprocessors, the IBM RT PC, the SUN 3, the Encore MultiMax, the Sequent Balance 21000 and several experimental computers. Although these ...

85 ContactMap: Organizing communication in a social desktop

Steve Whittaker, Quentin Jones, Bonnie Nardi, Mike Creech, Loren Terveen, Ellen Isaacs, John Hainsworth
December 2004 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 11 Issue 4

Full text available: [pdf\(4.29 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Modern work is a highly social process, offering many cues for people to organize communication and access information. Shared physical workplaces provide natural support for tasks such as (a) *<1>social reminding</i>* about communication commitments and keeping track of collaborators and friends, and (b) *<1>social data mining</i>* of local expertise for advice and information. However, many people now collaborate remotely using tools such as email and voicemail. Our field studie ...

Keywords: Email, human-computer interaction, instant messaging, interpersonal communication, iterative user-centered design, personal information management, personal social desktop, social data mining, social reminding, visualization

86 3b---Short Papers: Our Collective Experience: PageRate: counting Web users' votes

Jianhan Zhu, Jun Hong, John G. Hughes
September 2001 **Proceedings of the twelfth ACM conference on Hypertext and Hypermedia**

Full text available: [pdf\(73.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose a PageRate method to give Web pages on a Web site ratings based on the Web link structure and user usage data, which are both recorded in the Web log files. The method is an improvement over PageRank [1, 6]. PageRate can be used to objectively evaluate the importance of pages. A PageClustering algorithm is proposed to cluster Web pages with similar incoming links and ratings. The results are used to integrate with search results returned by search engines.

Keywords: Web link structures, Web log files, clustering, rating

87

A system for the seamless integration of personal messages using agents developed on a lotus notes platform.

Ramiro Liscano, Roger Impey, Paul Gordon, Suhayya Abu-Hakima

November 1996 **Proceedings of the 1996 conference of the Centre for Advanced Studies in Collaborative research**

Full text available: [pdf\(92.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce a seamless messaging system for the management of personal messages. The aim of it is to intercept, filter, interpret, and deliver multimodal messages (voice, fax, and/or e-mail messages). Messages are delivered to the recipient regardless of their target messaging device. Seamless messaging involves finding the person (if urgent) and delivering the information to them on their cellular phone, pager, laptop, nearest fax, telephone, or workstation. The system includes a set of person ...

88 Fbufs: a high-bandwidth cross-domain transfer facility

Peter Druschel, Larry L. Peterson

December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles**, Volume 27 Issue 5

Full text available: [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We have designed and implemented a new operating system facility for I/O buffer management and data transfer across protection domain boundaries on shared memory machines. This facility, called *fast buffers* (fbufs), combines virtual page remapping with shared virtual memory, and exploits locality in I/O traffic to achieve high throughput without compromising protection, security, or modularity. goal is to help deliver the high bandwidth afforded by emerging high-speed networks to user-level ...

89 Extensible file systems in spring

Yousef A. Khalidi, Michael N. Nelson

December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles**, Volume 27 Issue 5

Full text available: [pdf\(1.47 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we describe an architecture for extensible file systems. The architecture enables the extension of file system functionality by composing (or stacking) new file systems on top of existing file systems. A file system that is stacked on top of an existing file system can access the existing file system's files via a well-defined naming interface and can share the same underlying file data in a coherent manner. We describe extending file systems in the context of the Spring operating ...

90 Virtual memory versus file interfaces for large, memory-intensive scientific applications

Yoonho Park, Ridgway Scott, Stuart Sechrist

November 1996 **Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: [pdf\(323.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Scientific applications often require some strategy for temporary data storage to do the largest possible simulations. The use of virtual memory for temporary data storage has received criticism because of performance problems. However, modern virtual memory found in recent operating systems such as Cenju-3/DE give application writers control over virtual memory policies. We demonstrate that custom virtual memory policies can dramatically reduce virtual memory overhead and allow application ...

91 A dynamic flexible grouping over CORBA-based network and its application to mobile computing 

Takashi Okuda, Seiji Adachi, Tetsuo Ideguchi, Hiroshi Yasukawa, Xuejun Tian
March 2000 **Proceedings f the 2000 ACM symposium on Applied computing**

Full text available:  pdf(348.27 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: CORBA-based network, dynamic flexible grouping, flexible work, grouping, virtual organizations

92 Explanation structures in XSEL 

Karen Kukich

July 1985 **Proceedings of the 23rd conference on Association for Computational Linguistics**

Full text available:  pdf(696.45 KB) Additional Information: [full citation](#), [references](#), [citations](#)
 Publisher Site

93 Process migration 

September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

Full text available:  pdf(1.24 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

94 An introduction to Java 2 micro edition (J2ME); Java in small things 

James White

July 2001 **Proceedings of the 23rd International Conference on Software Engineering**

Full text available:  pdf(139.27 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)
 Publisher Site

By now, most people are familiar with the Java 2 platform and how Sun has grouped Java technologies into three editions (Standard, Micro and Enterprise Editions). Sun introduced the Java 2, Micro Edition (J2ME) in June 1999 to address the needs of the consumer electronics and embedded devices community. Specifically, the J2ME was built for devices with limited power, network connectivity (often wireless), and graphical user interface capabilities.

Today, the J2ME provides a ...

95 Novel interfaces: Display-agnostic hypermedia 

Unmil P. Karadkar, Richard Furuta, Selen Ustun, YoungJoo Park, Jin-Cheon Na, Vivek Gupta,

Tolga Ciftci, Yungah Park

August 2004 **Proceedings of the fifteenth ACM conference on Hypertext & hypermedia**

Full text available:  pdf(551.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the diversifying information environment, contemporary hypermedia authoring and filtering mechanisms cater to specific devices. Display-agnostic hypermedia can be flexibly and efficiently presented on a variety of information devices without any modification of their information content. We augment context-aware Trellis (caT) by introducing two mechanisms to support display-agnosticism: development of new browsers and architectural enhancements. We present browsers that reinterpret existing c ...

Keywords: context-aware trellis (caT), display-agnostic hypermedia, multi-device integrated dynamic activity spaces (MIDAS)

96 Reports: Report on the 3rd web dynamics workshop, at WWW'2004 

Mark Levene, Alexandra Poulovassilis

September 2004 **ACM SIGMOD Record**, Volume 33 Issue 3

Full text available:  pdf(97.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The web is highly dynamic in both the content and quantity of the information that it encompasses. In order to fully exploit its enormous potential as a global repository of information, we need to understand how its size, topology, and content are evolving. This then allows the development of new techniques for locating and retrieving information that are better able to adapt and scale to its change and growth. The web's users are highly diverse and can access the it from a variety of device ...

97 The performance of μ -kernel-based systems 

Hermann Härtig, Michael Hohmuth, Jochen Liedtke, Sebastian Schönberg

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available:  pdf(2.02 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

98 Toward real microkernels 

Jochen Liedtke

September 1996 **Communications of the ACM**, Volume 39 Issue 9

Full text available:  pdf(280.44 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

99 Joking, storytelling, artsharing, expressing affection: a field trial of how children and their social network communicate with digital images in leisure time 

Ann Mäkelä, Verena Giller, Manfred Tscheligi, Reinhard Sefelin

April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available:  pdf(952.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Increasing use of mobile phones in leisure and communication with digital images are important and current issues in the field of telecommunications. However, little is known about how images would be used in leisure related communication. According to our experience field trials are the best way of studying it. In this paper, we describe a field-trial case study of leisure related communication with digital images. Moreover, we discuss the advantages of conducting field trials as part of pro ...

Keywords: children, digital images, family, field trial, leisure, product concept design, prototypes, wireless communication

100 The sawmill framework for virtual memory diversity



Mohit Aron, Jochen Liedtke, Kevin Elphinstone, Yoonho Park, Trent Jaeger, Luke Deller
January 2001 **Australian Computer Science Communications , Proceedings of the 6th Australasian conference on Computer systems architecture**, Volume 23 Issue 4

Full text available:

pdf(778.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Publisher Site

We present a framework that allows applications to build and customize VM services on the L4 microkernel. While the L4 microkernel's abstractions are quite powerful, using these abstractions effectively requires higher-level paradigms. We propose the dataspace paradigm which provides a modular VM framework. The modularity introduced by the dataspace paradigm facilitates implementation and permits dynamic configurability. Initial performance results from a prototype are promising.

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